

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-45

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas (CNG)

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
SDD8.5FZKORB (1G, 2G)	8.5 518	Powertrain Control Module Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.2	15.5	5.0	0.07

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
SDD8.5FZKORB (1G, 2G)	0.6	2.4	2.7	0.03

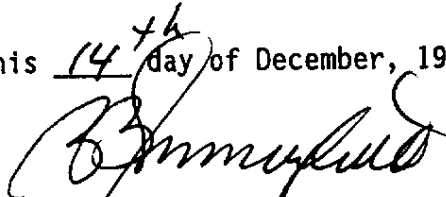
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine family is certified for use in urban buses.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 14th day of December, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Page 1 of 1

Manufacturer: Detroit Diesel Corporation

Engine Family: SDD8.5FZK0RB

Displacement: 8.5 Liters 518 Cubic Inches

Maximum Rated Power: 275 HP @ 2100 RPM

Engine Configuration: I-4

Ignition: Compression _____ Compression with Glow Plug _____ Spark XFuel Type(s): Dedicated X Flex-Fuel _____ Dual-Fuel _____ Diesel _____ M100 _____ M85 _____CNG X LNG _____ LPG _____ Other (specify) _____Diesel Cert Fuel: 13 CCR 2282 _____ 40 CFR 86.1313-90 _____ 40 CFR 86.1313-94 XPrimary Intended Service Class: LHD _____ MHD _____ HHD _____ Urban Bus X

Exhaust ECS (include. MFI, TC, CAC): ECM/PCM, CAC, (TC)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @Rated HP mm3/Stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
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SERIES 50G BUS

1G	275@2100	NA (95.4)	23517613	23518269(1)(2)		
2G	260@2100	NA (91.0)	23517613	23518269(1)(2)		

- (1) ECM part number 23518090 replaced 23516363 effective with change number 009(SP07).
(2) ECM part number 23518269 replaced 23518090 effective with change number 010(SP08).

NA: Data not applicable to gaseous fueled engine.

Date Issued: 09-15-94

Rev.: 009 010 012

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SERIES 50 BUS W/CONVERTER

1G	275@2100	NA (95.4)	23517613	23518269(1)(2)		
2G	260@2100	NA (91.0)	23517613	23518269(1)(2)		

(1) ECM part number 23518090 replaced 23516363 effective with change number 009(SP07).

(2) ECM part number 23518269 replaced 23518090 effective with change number 010(SP08).

NA: Data not applicable to gaseous fueled engine.

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